ProcessLogix R510.0 Firmware Update for the ControlLogix ControlNet Bridge

Catalog Numbers 1756-CNB and 1756-CNBR (Series B, D, and E), 1757-PLX52

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IMPORTANT

- This update is required for all ProcessLogix R510.0 Servers and Engineering Workstations in systems using at least one 1756-CNB(R) series E module.
- This update is optional but recommended for all ProcessLogix R510.0 Servers and Engineering Workstations in systems using 1756-CNB(R) series B or series D modules.
- Prior installation of ProcessLogix R510.0 software is required for installation of ProcessLogix_R510_CNB_Update2.exe.
- For ProcessLogix R510.0 Servers and Engineering Workstations, before you install this update, you must first install the following updates:
  - ProcessLogix R510.0 Cumulative Update 1, Knowledgebase Tech Note ID 30608.
  - ProcessLogix Firmware Update 2 for the 1784-PCIC Cards, Knowledgebase Tech Note ID 42001.

Contents of Update

This update contains the following software:

- New firmware files for the 1756-CNB and 1756-CNBR series D and series E modules
- New EDS files for the 1756-CNB and 1756-CNBR series D and series E modules
- Firmware files for the 1756-CNB and 1756-CNBR series B modules
- New NTools software
- Updated ver_rev file

Before You Begin

Before beginning the installation, download **ProcessLogix_R510_CNB_Update2.exe** to your ProcessLogix Servers and Engineering Workstations.

This document does not contain 1756-CNB and 1756-CNBR series D installation instructions. Refer to ControlLogix ControlNet Bridge Module, Series C and D Installation Instructions, publication 1756-IN571.

This document does not contain 1756-CNB and 1756-CNBR series E installation instructions. Refer to ControlLogix ControlNet Bridge Module, Series E Installation Instructions, publication 1756-IN604.

This document does not contain 1756-CNB and 1756-CNBR Series B installation instructions. In Knowledge Builder, refer to ProcessLogix R500>Control Hardware Installation Guide> ControlNet Communication Module Installation and Removal.

This document refers to the Installation and Upgrade Guide that was shipped with your ProcessLogix software.

Required System Components

The following software components must be installed on your Servers or Engineering Workstations before you install this update.

- Windows 2000 Service Pack 3 or 4, or Windows XP
- Internet Explorer, version 6.0 or 6.0 SP1
- ProcessLogix R510.0

Enhancements

The new NTools software version 500.1.1.21 is released with ProcessLogix R510.0 systems.

Corrected Anomalies

This table lists anomalies corrected in this update.

Anomaly #	Description
Lgx00064748	New hardware qualification: 1756-CNBR Series E on ProcessLogix R510.0 System
Lgx00079017	New firmware version 7.013 qualification: 1756-CNBR Series D on ProcessLogix R510.0 System

Install the Server Update

You must complete this procedure on all Servers in your ProcessLogix system. If you have a redundant Server pair, you must complete the following procedure on SERVERB first, and then repeat the procedure for SERVERA. Before beginning the installation, be certain that SERVERA is the Primary Server and Servers are synchronized.

1. Close ProcessLogix NTools software.
2. Double-click ProcessLogix_R510_CNB_Update2.exe.
3. At the Update dialog box, click Setup.

   The following files are installed.

File Type	Revisions	Location and File Name
Firmware	2.30	C:\Honeywell\ TPS50\System\Firmware\CNB\1756-CNB(R)-B\2_30\99422008.nvs(1) C:\Honeywell\ TPS50\System\Firmware\CNB\1756-CNB(R)-B\2_30\99421608.bin C:\Honeywell\ TPS50\System\Firmware\CNB\1756-CNB(R)-B\2_30\99421701.bin C:\Honeywell\ TPS50\System\Firmware\CNB\1756-CNB(R)-B\2_30\99421801.bin
	7.13	C:\Honeywell\ TPS50\System\Firmware\CNB\1756-CNB(R)-D\7_13\99415553.nvs (2) C:\Honeywell\ TPS50\System\Firmware\CNB\1756-CNB(R)-D\7_13\99415353.bin C:\Honeywell\ TPS50\System\Firmware\CNB\1756-CNB(R)-D\7_13\99415453.bin C:\Honeywell\ TPS50\System\Firmware\CNB\1756-CNB(R)-D\7_13\99415553.RES
	11.3	C:\Honeywell\TPS50\System\Firmware\CNB\1756-CNB(R)-E\11_3\99501263.nvs(3) C:\Honeywell\TPS50\System\Firmware\CNB\1756-CNB(R)-E\11_3\99493073.bin C:\Honeywell\TPS50\System\Firmware\CNB\1756-CNB(R)-E\11_3\99501263.RES
NTools	PS500.1-01.21	C:\Honeywell\TPS50\System\bin\ntools.exe
EDS	NA	C:\ProgramFiles\RockwellSoftware\RSCOMMON\ProcessLogixEDS\ 0001000C00080700.eds(2) C:\ProgramFiles\RockwellSoftware\RSCOMMON\ProcessLogixEDS\ 0001000C00080B00.eds(3)

(1) This file applies to only the 1756-CNB and 1756-CNBR series B modules.

(2) This file applies to only the 1756-CNB and 1756-CNBR series D modules.

(3) This file applies to only the 1756-CNB and 1756-CNBR series E modules.

4. At the Installation Complete dialog box, click OK.

If you have a non-redundant Server, skip to Register EDS Files on page 6.

If you have a redundant Server pair, continue with Verify that Servers Are Synchronized.

Verify that Servers Are Synchronized

This procedure is required only for a redundant Server pair.

1. Verify that Servers are synchronized.
   a. On the Primary Server, click Start>Programs>ProcessLogix Server>Station.
   b. Click View>System Status>Server Redundancy.
   c. Verify that the display shows green status indicators for the following states:

      Primary Server
      - Running

      Backup Server
      - Synchronized
      - Running

      Link Status
      - Link 0 (LNK00) - OK Active link
      - Link 1 (LNK01) - OK (only applies if you are using a dual LAN)

2. Skip to step 3 if all status indicators are green.

   Follow these steps to synchronize the Servers if the Backup Server Synchronized status indicator is red.

   a. Verify that the Backup Server Running status indicator is green.
   b. Click the Oper field in the lower-right corner of the display.
   c. Type *mngr* in the Station Logon dialog box and click OK.
   d. Click Synchronize.

e. Type *Y* and press Enter when the Synchronize Databases (Y/N) prompt appears.

Depending on your configuration, this may take some time to complete.

f. Wait for the synchronization to complete (Synchronization Complete prompt appears) and verify that the display shows green status indicators for the following states:

Primary Server

- Running

Backup Server

- Synchronized
- Running

Link Status

- Link 0 (LNK00) - OK Active link
- Link 1 (LNK01) - OK (Only applies if you are using a dual LAN)

3. Repeat all sections of the Install the Server Update procedure on SERVERA.

Refer to Install the Server Update on page 3.

4. Verify that SERVERA is now Primary and the Servers are synchronized after the update has been installed on both SERVERA and SERVERB.

Register EDS Files

Complete the following steps to register the EDS file.

IMPORTANT You must register the EDS files on every Server in your ProcessLogix system.

1. Click Start>Program>Rockwell Software>RSLinx Tools>EDS Hardware Installation Tool.
2. Click Add/Remove.
3. At the Register Device dialog box, select Register a single file.
4. Browse to C:\Program Files\Rockwell Software\RSCommon\ ProcessLogix EDS\0001000C00080700.eds and click Open.
5. At the Register Device dialog box, click Next.
6. At the EDS file Installation Test Results dialog box, click Next.
7. At the Change Graphic Image dialog box, click Next.
8. At the Final Task Summary dialog box, click Next.
9. At the Completing the EDS Wizard dialog box, click Finish.
10. Repeat steps 1–9 to register the 0001000C00080B00.eds file.
11. Right-click the My Computer icon and select Manage.
12. Expand Services and Applications and select Services.

IMPORTANT In the following step, RSLinx software is restarted. This action also restarts the ProcessLogix Control Data Access Server service, which will temporarily interrupt Control Builder communication with the controller.

13. Right-click RSLinx and select Restart.
14. At the Restart Other Services dialog box, click Yes.
15. Close the Computer Management dialog box.

Firmware Update

Use Ntools software to update the firmware of the 1756-CNB and 1756-CNBR series B, D, and E modules. If these modules already have ProcessLogix compatible firmware version then they do not need to be updated.

For more information on updating the firmware of the modules, refer to the firmware update section in the Installation and Upgrade Guide of ProcessLogix R510.0.

IMPORTANT

- Be certain to select the correct .nvs file. Flashing with the wrong revision will render the module inoperable.
- Do not update more than one module of a given type at one time. Do not select the option that allows you to update identical modules.

1756-CNB, 1756-CNBR Series	Firmware Revision	Location
B	2.30	C:\Honeywell\TPS50\System\Firmware\CNB\ 1756-CNB(R)-B\2_30\
D	7.13	C:\Honeywell\ TPS50\System\Firmware\CNB\ 1756-CNB(R)-D\7_13\
E	11.3	C:\Honeywell\TPS50\System\Firmware\CNB\ 1756-CNB(R)-E\11_3\

Install the Engineering Workstation Update

Complete the following steps to install the update on your Engineering Workstations.

1. Close ProcessLogix NTools software.
2. Double-click **ProcessLogix_R510_CNB_Update2.exe**.
3. At the Update dialog box, click Setup.

   The files listed in the table on page 3 are installed.
4. At the Installation Complete dialog box, click OK.

   The Engineering Workstation update is complete.

Update Confirmation

Follow these steps to confirm that the update was properly installed on your system.

1. Using Windows Explorer web browser, open the C:\Honeywell\TPS50\System\bin\ver_rev.txt file.

   If the file contains the following lines, the update was installed properly.
   - <MM/DD/YY>: 1756-CNB/B module entry updated.
   - <MM/DD/YY>: 1756-CNBR/B module entry updated.
   - <MM/DD/YY>: 1756-CNB/D module entry updated.
   - <MM/DD/YY>: 1756-CNBR/D module entry updated.
   - <MM/DD/YY>: 1756-CNB/E module entry updated.
   - <MM/DD/YY>: 1756-CNBR/E module entry updated.

   Where MM/DD/YY is the system date at the time of installation.

2. From the Start menu, select Programs>Process Engineering Tools>NTools.

3. From the Help menu, select About Network Tools.

   If the screen indicates 'Version PS500.1-01.21', the update was installed properly.

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